United States Environmental Protection Agency
Region 7
300 Minnesota Avenue
Kansas City, KS 66101

Date: 03/17/2021

Subject: Transmittal of Sample Analysis Results for ASR #: 8778

Project ID: YSB7J7

Project Description: TCE-Clinton Engines

From: Margaret E.W. St. Germain, Chief
FOR Laboratory Technology & Analysis Branch
Laboratory Services and Applied Sciences Division

ROBERT NICHOLS
Digitally signed by ROBERT NICHOLS
Date: 2021.03.17 11:04:39 -05'00'

To: Yvonne Smith
SEMD/AERR/RREP

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. These results are based on samples as received at the Science and Technology Center. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please ensure that you file this electronic (.pdf only) transmittal in your records management system. The Regional Laboratory will now retain all of the original hardcopy documentation (e.g. COC[s] and the R7LIMS field sheet[s], etc.) according to our LSASD records management system.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the Online ASR Sample/Data Disposition and Customer Survey for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Online ASR Sample/Data Disposition and Customer Survey. It is critical that we receive your response in accordance to RCRA and the laboratory accreditation.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

40575401

Project Manager: Yvonne Smith **Org:** SEMD/AERR/RREP **Phone:** 913-551-7795

Project ID: YSB7J7 **QAPP Number:** 2020109

Project Desc: TCE-Clinton Engines

Location: Maquoketa **State:** Iowa **Program:** Superfund

Site Name: TCE-CLINTON ENGINES - Site Evaluation/Disposition **Site ID:** B7J7 **Site OU:** 00

Purpose: Site Cleanup Support **GPRA PRC:** 000DC6

Vapor Intrusion sampling.
PM (YS) noted on the submitted ASR on 1/7/2021 that this site is not part of a litigation hold at this time.

GPRA/site code check (+OU) ok per JE on 1/7/2021.

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of sample for quality control purpose.

__ = Field Sample

Units: Specific units in which results are reported.

ug/m3 = Micrograms per Cubic Meter
inHg = Inch of Mercury
I.D. = Identification, Species or Other ID

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank)= Values have been reviewed and found acceptable for use.
U = The analyte was not detected at or above the reporting limit.

ASR Number: 8778 **Sample Information Summary** **03/17/2021**

Project ID: YSB7J7 **Project Desc:** TCE-Clinton Engines

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 -	__	Air	24-Hr Indoor Air - [redacted] E Platt		02/22/2021	17:29	02/23/2021	16:10	02/25/2021
2 -	__	Air	24-Hr Indoor Air - [redacted] E Maple		02/23/2021	09:49	02/24/2021	08:45	02/25/2021
3 -	__	Air	Sub-Slab Grab - [redacted] E Maple		02/23/2021	09:56			02/25/2021
4 -	__	Air	24-Hr Indoor Air - [redacted] E Maple		02/23/2021	10:17	02/24/2021	08:50	02/25/2021
5 -	__	Air	Sub-Slab Grab - [redacted] E Maple		02/23/2021	10:21			02/25/2021
6 -	__	Air	24-Hr Indoor Air - [redacted] N Dearborn		02/23/2021	13:01	02/24/2021	11:42	02/25/2021
7 -	__	Air	24-Hr Indoor Air - [redacted] E Platt		02/23/2021	13:43	02/24/2021	12:14	02/25/2021
8 -	__	Air	Sub-Slab Grab - [redacted] E Platt		02/23/2021	13:46			02/25/2021
9 -	__	Air	24-Hr Indoor Air - [redacted] E Maple		02/23/2021	16:44	02/24/2021	15:28	02/25/2021
10 -	__	Air	24-Hr Indoor Air - [redacted] S Matteson		02/23/2021	17:34	02/24/2021	16:20	02/25/2021
11 -	__	Air	Sub-Slab Grab - [redacted] S Matteson		02/23/2021	17:40			02/25/2021
12 -	__	Air	Ambient Air - [redacted] E Maple		02/23/2021	18:10	02/24/2021	16:55	02/25/2021

Analysis **Comments About Results For This Analysis**

1 Air VOA Field Parameters

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__
8-__ 9-__ 10-__ 11-__ 12-__

Comments:
(N/A)

1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3230.4I

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__
8-__ 9-__ 10-__ 11-__ 12-__

Comments:
Though not requested, Tetrachloroethene was noted in samples 4 at 13.5 ug/m3, 5 at 12.5ug/m3 and 8 at 10.1 ug/m3.

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1 Air VOA Field Parameters					
Canister ID	I.D.	692	808	694	340
Regulator ID	I.D.	4	8	NA	10
Starting Pressure	inHg	-29	-30	-30	-28.5
Ending Pressure	inHg	-6	-4.5	-1	0
1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS					
cis-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	ug/m3	0.20 U	0.46	0.20 U	0.20 U
Toluene	ug/m3	2.9	460	16	5.5
Trichloroethene	ug/m3	0.14 U	0.14 U	0.14 U	0.14 U
Vinyl Chloride	ug/m3	0.13 U	0.13 U	0.13 U	0.13 U

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
1 Air VOA Field Parameters					
Canister ID	I.D.	736	689	726	710
Regulator ID	I.D.	NA	128	113	NA
Starting Pressure	inHg	-30	-29	-29	-30
Ending Pressure	inHg	-3	-7.5	-6	-2
1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS					
cis-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
Toluene	ug/m3	0.76 U	2.2	8.8	0.76 U
Trichloroethene	ug/m3	0.14 U	0.14 U	0.38	0.14 U
Vinyl Chloride	ug/m3	0.13 U	0.13 U	0.13 U	0.13 U

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
1 Air VOA Field Parameters					
Canister ID	I.D.	836	835	813	672
Regulator ID	I.D.	163	164	NA	6
Starting Pressure	inHg	-28	-28	-30	-30
Ending Pressure	inHg	-5	-4	-3.5	-4
1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS					
cis-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
Toluene	ug/m3	220	0.76 U	0.76 U	0.76 U
Trichloroethene	ug/m3	0.38	0.14 U	1.0	0.14 U
Vinyl Chloride	ug/m3	0.13 U	0.13 U	0.13 U	0.13 U